Data		STATE 0			STATE 1	
		Code	Next		Code	Next
0		10100*	0		00100*	0
1		101000	1		001000	1
2		101001	1		001001	1
3		10010*	0		01010*	0
4		100100	1		010100	1
5		100101	1		010101	1
6		101010	0		00010*	0
7		101010	1		000100	1
8		100010	0		000101	1
9		100010	1		01000*	0
10		10000*	0		010000	1
11		10000*	1		010001	1
12		000010	0		001010	0
13		000010	1		001010	1
14		00000*	0		010010	0
15		00000*	1		010010	1

FIG. 1

Conversion state	2T repetition limiting method
Sequence of "10*" (end) + "00000*"	* is always set to "1"
Two data "6" of STATE 0 continue	"100100" and "00000*" are assigned, and STATE 0 is designated as next STATE
Two data "5" of STATE 0 continue	"100100" and "00000*" are assigned, and STATE 1 is designated as next STATE

FIG. 2

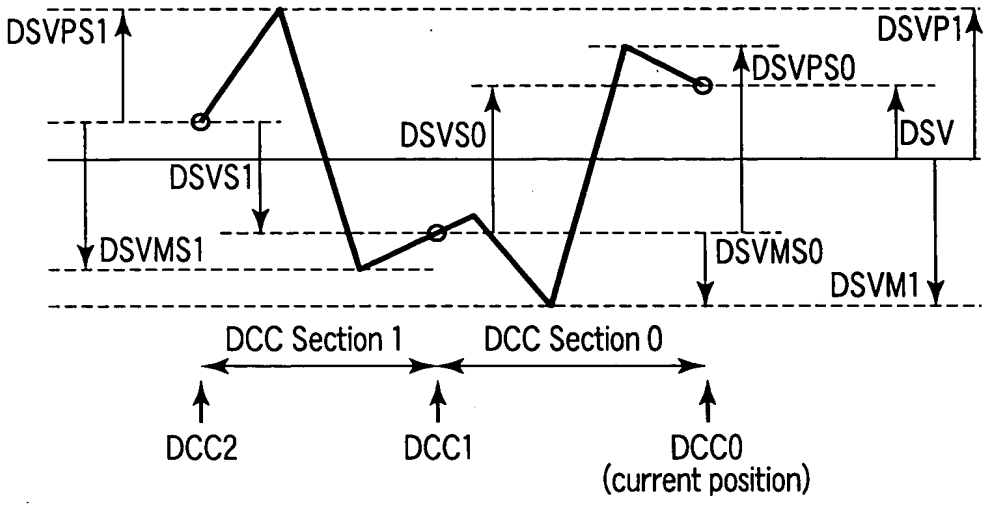
DSVPS1
DSVP1
DSVPS0
DSVS0
DSV
DSVS1
DSVMS1
DSVMS0
DSVM1
DCC Section 1
DCC Section 0
DCC2
DCC1
DCC0
(current position)

FIG. 3

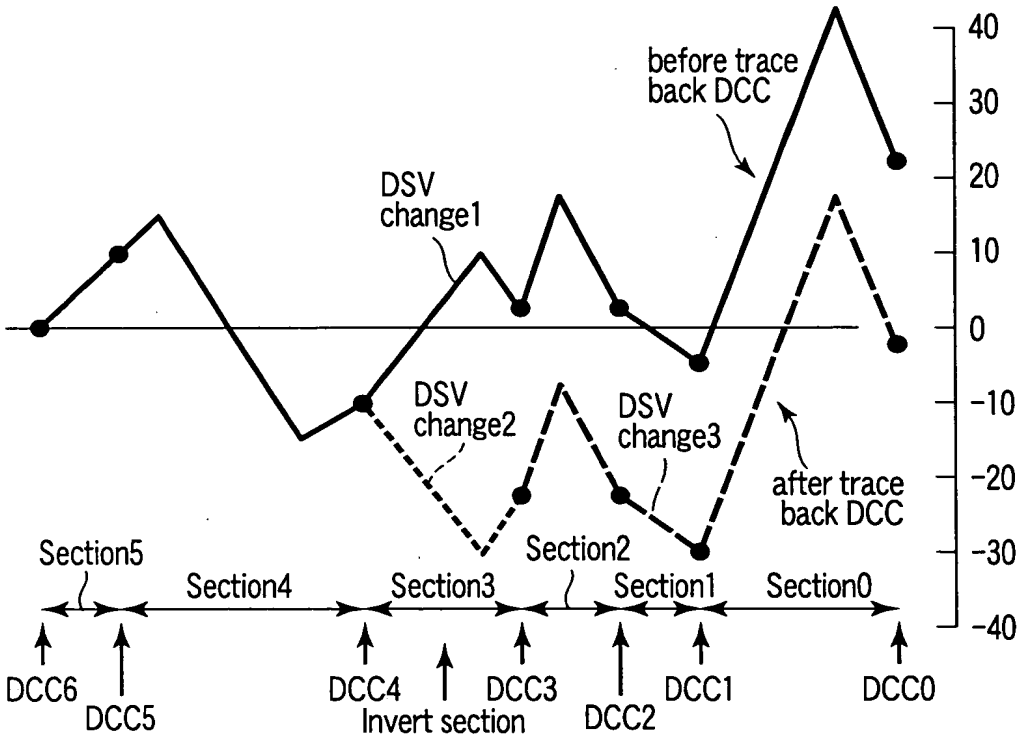
before trace back DCC
DSV change1
DSV change2
DSV change3
after trace back DCC
40
30
20
10
0
-10
-20
-30
-40
Section5
Section4
Section3
Section2
Section1
Section0
DCC6
DCC5
DCC4
Invert section
DCC3
DCC2
DCC1
DCC0

FIG. 4

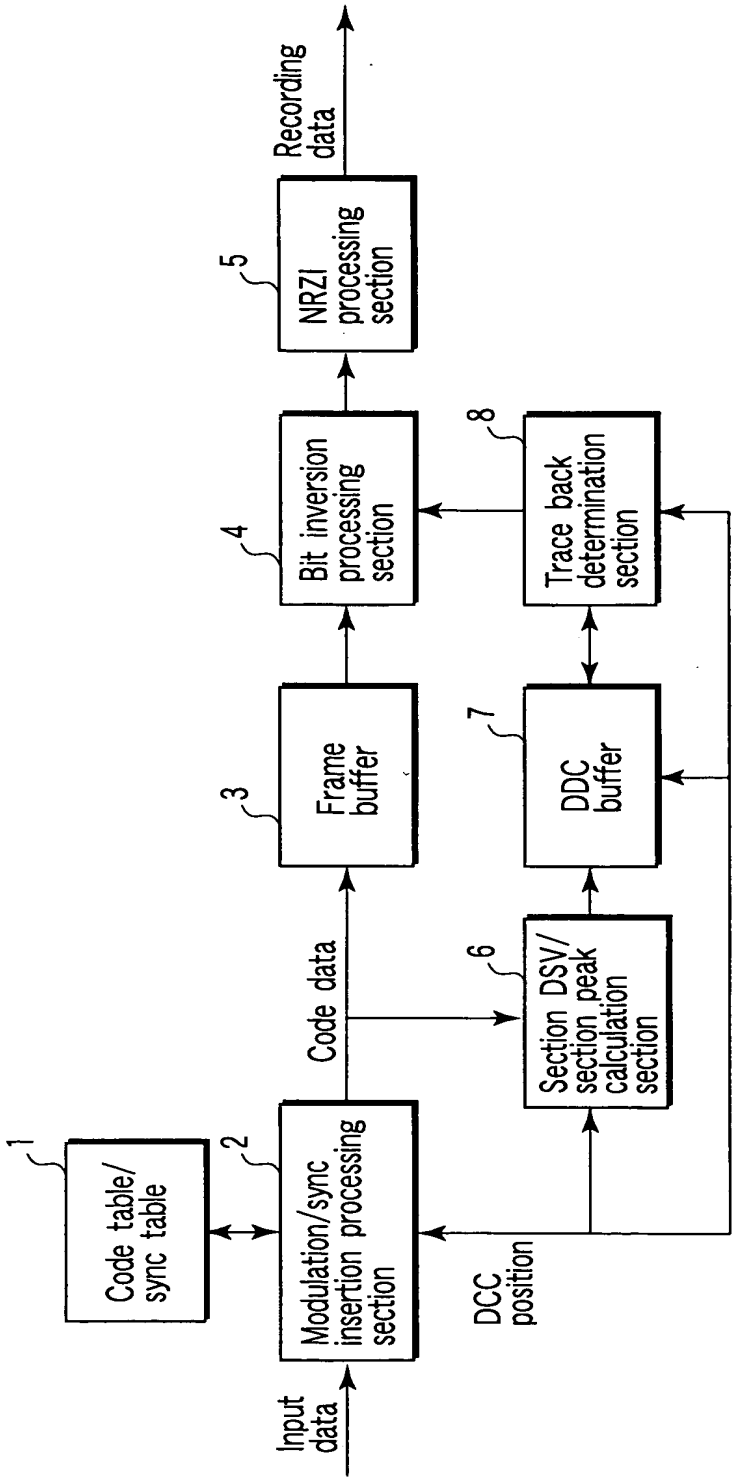
Input data
Modulation/sync insertion processing section
2
Code table/ sync table
1
Code data
Frame buffer
3
Bit inversion processing section
4
NRZI processing section
5
Recording data
DCC position
Section DSV/ section peak calculation section
6
DDC buffer
7
Trace back determination section
8

FIG. 5

Run length	Number of times of occurrence	Occupation amount	Occurence frequency	Occupation ratio
1T	0	0	0.0%	0.0%
2T	16441037	32882074	38.4%	22.5%
3T	10779337	32338011	25.1%	22.1%
4T	6926478	27705912	16.2%	18.9%
5T	3741146	18705730	8.7%	12.8%
6T	2520047	15120282	5.9%	10.3%
7T	1265335	8857345	3.0%	6.1%
8T	644226	5153808	1.5%	3.5%
9T	286904	2582136	0.7%	1.8%
10T	132286	1322860	0.3%	0.9%
11T	0	0	0.0%	0.0%
12T	131040	1572480	0.3%	1.1%
13T	0	0	0.0%	0.0%
TOTAL	42867836	146240638	100.0%	100.0%

FIG. 6

Run length	Number of times of occurrence	Occupation amount	Occurence frequency	Occupation ratio
1T	6130332	6130332	60.4%	37.3%
2T	2487589	4975178	24.5%	30.3%
3T	975148	2925444	9.6%	17.8%
4T	387184	1548736	3.8%	9.4%
5T	128157	640785	1.3%	3.9%
6T	31425	188550	0.3%	1.1%
7T	4548	31836	0.0%	0.2%
8T	22	176	0.0%	0.0%
9T	0	0	0.0%	0.0%
10T	0	0	0.0%	0.0%
TOTAL	10144405	16441037	100.0%	100.0%

FIG. 7

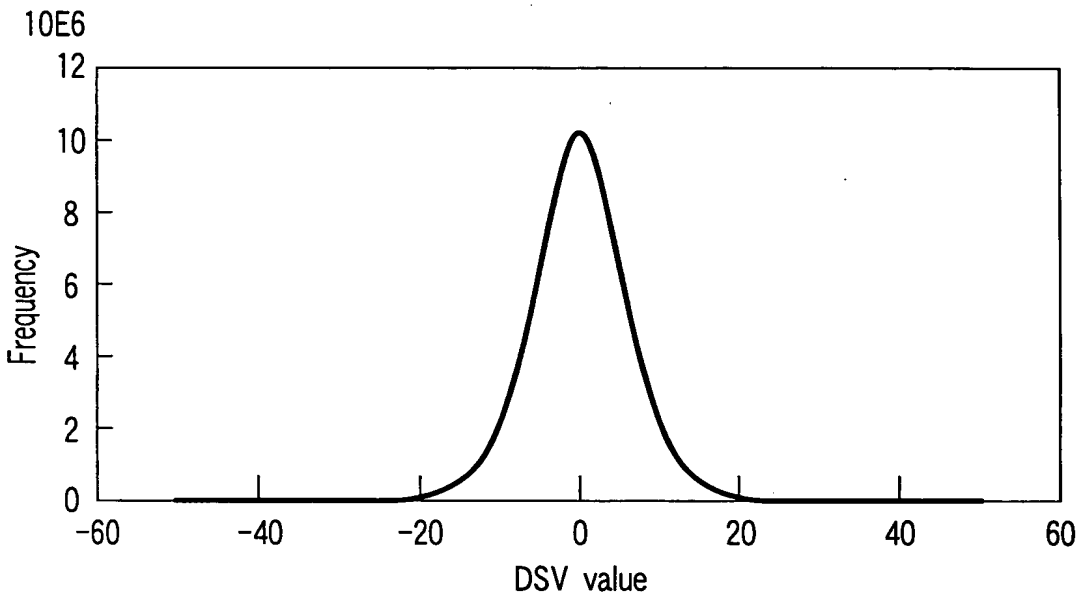

FIG. 8

Minimum value	Maximum value	Average value	Distribution
-45	49	-0.037	37.64

FIG. 9